

CLAIMS

- 1) An incontinence device for receiving urine from a user comprising a bag tailored to fit the groin region of the user wherein the bag accepts urine above the point of exit via a tube and has an additional flexible detachable self closing outlet wherein the bag has two compartments to hold a container housing a motor with flexible drive, battery and electronic circuit, a housing comprising a motorised system for accepting urine consisting of an automatic liquid detector a non return valve and a motorised pump.
- 2) An incontinence device according to claim 1, wherein the motorised housing is made of plastic with terminal screw receptacles, wherein said housing incorporates a removable vertical levelling device, wherein said device audibly alerts the user in the event of the motorised system/impeller unit becoming elevated to an extent that it is unable to accept urine (when sitting or lying) wherein said device is activated after a predetermined time (5 seconds).
- 3) An incontinence device according to claim 2, wherein the motorised housing is tapered in shape to allow the contents to be removed, cleaned and reassembled in one direction only.
- 4) An incontinence device according to claim 1 wherein the 360° sensitivity liquid detector and non return valve is made as one unit to aid easy dismantling and reassembling after cleaning, wherein the valve's gland can be extracted during menstruation thereby preventing sticking and the liquid detector can be electronically varied in sensitivity by the user to cater for personal need.
- 5) An incontinence device according to claim 3 wherein the motorised housing accommodates a flexible, detachable, expandable and vented appendage into which a penis can be inserted, wherein said appendage has an internally rolled upper edge to facilitate an expandable ring thereby catering for variation in size and an additional low tension elasticated band to permit minor expansion and contraction.
- 6) An incontinence device according to claim 5, wherein said detachable appendage permits safety overflow in the event of an electrical or mechanical malfunction.
- 7) An incontinence device according to claim 1, wherein a detachable, flexible valve urine inlet is connected to the motorised unit and the groin bag.
- 8) An incontinence device according to claim 1, wherein said bag is made of flexible, impervious, reusable material, or sealed disposable diaper type construction, wherein said diaper type accepts a perforated inlet to aid the equal dispersion of urine, wherein said diaper type is best used at bedtime and during menstruation.
- 9) An incontinence device according to claim 1, wherein a groin bag further incorporates an adjustable elasticised waist and leg bands, wherein said bag has an upper inlet, and a lower outlet onto which a spring loaded self closing outlet is connected to vacate urine from said bag via the fly of the trousers when necessary.
- 10) An incontinence device according to claim 9, wherein the groin bag can be fitted inside a soft quilted washable and reusable jacket to promote comfort, wherein said jacket has two zippable compartments to contain female menstrual paraphernalia.

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- 11) An incontinence device wherein the motorised system/impeller unit *is* located directly below the point of exit, wherein all urine entering the system does so exclusively under gravity, and is then impelled along the flexible tube into the groin bag to be vacated when necessary.
- 12) An incontinence device according to claim 11, comprising a vertical weight bearing leg strap or a free standing calibrated container herein illustrated.
- 13) An incontinence device according to claim 1, wherein a motorised/impeller system can be either directly driven, flexibly driven incorporating a gear system, or flexibly driven incorporating a pulley system.
- 14) An incontinence device according to claim 1, wherein said device contains an elliptical shape urinal bowl made of plastic, with 4 external anchoring points onto which adjustable elasticated straps are placed to anchor the device onto the adjustable waistband of a female user.
- 15) A female incontinence device according to claim 14, wherein said elliptical bowl has a vertical and elevated circumferential perforated edge which accepts a soft, flexible, pervious, detachable, washable and reusable membrane.
- 16) An incontinence device according to claim 15, wherein said elliptical bowl permits safety overflow in the event of an electrical or mechanical malfunction.
- 17) An incontinence device according to claim 15, wherein said elliptical bowl has an internal circumferential rim, thereby preventing urine from reaching the pervious membrane, wherein said container can be fitted with a blood sensitive warning device.
- 18) An incontinence device according to claim 1 wherein the container, housing the motor with the flexible drive shaft, the electronic circuit, and battery are held in position within the groin bag flap/compartment.
- 19) An incontinence device according to claim 1, wherein the electronic device permits the user to select, program, customise and control the volume of all audible signals, and vary the speed of the motor to comply with individual demand.
- 20) An incontinence device according to claim 18, wherein said electronic device facilitate an audible or visual low voltage signal, wherein said device can be fitted with a mini-jack earphone to assist the hearing impaired.
- 21) An incontinence device according to claim 1, wherein said electronic device can incorporate a glucose sensitive detector with digital storage and read-back facility via an external monitor or the purpose built monitor V.D.U.
- 22) An incontinence device according to claim 17, wherein said electronic device incorporates a plug in P.C.B wherein said P.C.B. can be removed and upgraded to cater for changing demands.